

Quantification of Dioxins, Furans and PCB's in the Lower Mississippi River

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Executive Summary

Ambient Mississippi River water, treated drinking water from the Mississippi River, edible portions of fish taken from the Mississippi River and Mississippi River bottom sediments were analyzed for dioxins, furans and PCBs using EPA analytical methods 1613 and 1668, respectively. Results from ambient river water and treated drinking water showed no PCB values above applicable standards and no detections of 2,3,7,8 Tetrachlorodibenzo-p-dioxin (TCDD). Octachlorodibenzo-p-dioxin (OCDD), Heptachlorodibenzo-p-dioxin (HpCDD) and Hexachlorodibenzo-p-dioxin (HxCDD) which have low toxic equivalency factors were detected in some water samples. Concentrations of dioxin, furans and PCBs in fish tissue were low and none were above Food and Drug Administration guidelines for consumption.

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Introduction

The Louisiana Department of Environmental Quality conducted sampling efforts to quantify levels of dioxin/furan congeners and of coplanar polychlorinated biphenyls (PCBs) in ambient surface waters, treated drinking waters, fish tissue and river bottom sediment taken from the Mississippi River. The effort was undertaken due to the rising interest in these compounds and their potential effects on human health and the environment. The Mississippi River is a major source of drinking water to citizens of southeast Louisiana and also of fish as a source of food due to the significant levels of commercial and recreational fishing.

Background

Dioxins and dioxin-like compounds called furans are a group of chlorinated chemicals that are produced by both man-made and natural processes. Dioxins and furans are not intentionally manufactured by industry except for research purposes. They can occur as contaminants in the manufacture of certain organic chemicals and in the manufacture of paper. They are released into the air in emissions from municipal solid waste and industrial incinerators. Non-industrial sources of dioxins include residential wood or trash burning, agricultural and landfill burning and diesel fuel emissions. Dioxins are also produced during forest fires and small amounts of dioxins occur naturally in peat bogs and clay deposits. The latest report of the U.S Environmental Protection Agency (EPA) Scientific Advisory Board has concluded that the most toxic dioxin compound, 2,3,7,8 Tetrachlorodibenzo-*p*-dioxin (2,3,7,8-TCDD), causes cancer in laboratory animals. Non-cancer effects of 2,3,7,8 TCDD include reproductive effects, altered liver function, weight loss and skin disease. Seventeen dioxin/furan congeners have been assigned Toxic Equivalent Factors (TEFs) to compare their relative toxicity to 2,3,7,8-TCDD.

PCBs are base/neutral compounds that are formed by the direct chlorination of biphenyl. There are 209 different PCB compounds, termed congeners, based on the possible chlorine substitution patterns. In the United States, mixtures of various PCB congeners were formulated for commercial use under the trade name Aroclor on the basis of their percent chlorine content. Historically, Aroclor analysis has been performed by most laboratories. PCB concentrations derived from Aroclor methods may underestimate total PCBs. In one study, results of PCBs in six fish samples as determined by Aroclor analysis and homologue analysis (Greene, 1991) were compared. On the average, the homologue method gave PCB estimates that were 230 percent higher than the results from the Aroclor method. For the purposes of determining whether tissue residues exceed potential levels of public health concern in fish and shellfish monitoring programs, analysis of PCB congener or Aroclor equivalents is believed to be acceptable. However, in this study, analyses for PCB homologues were conducted to provide the most conservative approach to human health risk.

PCBs are extremely persistent in the environment and are bioaccumulated throughout the food chain. Because of the lack of sufficient toxicologic data, EPA has not developed quantitative estimates of health risk for specific congeners; however, 12 dioxin-like congeners (non-ortho-substituted coplanar PCB congeners and some of the mono-ortho-substituted congeners) have been assigned TEFs and may be evaluated as contributing to dioxin health risk (Van den Berg et al., 1998).

Station Selection

Drinking Water Locations – treated water for drinking (finished water) was included in the sampling plan to ascertain the potential for risk to the public that uses the Mississippi River as a drinking water source. Initially selected stations were intended to represent areas of high population. The East Jefferson Water Works #1 facility, the New Orleans Sewage and Water Board facility at Carrollton and the New

Orleans Sewage and Water Board facility at Algiers were selected. These facilities receive source water from the Mississippi River between RM105 and 95.

Additional drinking water facilities were selected for sampling to include areas representing smaller populations. These stations were the Peoples Water Works in Donaldsonville at River Mile (RM) 175, Assumption Water Works #1 in Napoleonville (on Bayou Lafourche, a distributary of the Mississippi River), St. James Water Works #2 in Vacherie at RM 150, Lutcher Water Works in Lutcher at RM 147 and St. Charles Water Works #2 in Luling at RM 120.

Ambient River Water Stations – sites selected for ambient river water sampling included stations near Lake Providence RM 483, Baton Rouge RM 225, Donaldsonville RM 177 and Buras RM 26. The Lake Providence station represents the most upstream reach of the Mississippi River in Louisiana. The Baton Rouge station represents a reach of river below the outfalls of two paper mills and a portion of the industrial corridor of the Baton Rouge port area. The Donaldsonville station was selected so as to be upstream of the Peoples Water Works drinking water intake and below the Geismar industrial complex. The Buras station represents the river below all major discharges.

Fish Tissue and River Bottom Sediment Stations – sites selected for fish tissue and sediment sampling in the Mississippi River included St. Francisville (RM 267 – 270), Donaldsonville (RM 175 - 178) and the Venice/Buras area (RM 10 - 22). St. Francisville represents a reach of the river above the major industrial corridor in Louisiana. Donaldsonville represents a mid-point in the industrial corridor that is upstream of the Peoples Water Works drinking water intake and the Bayou Lafourche distributary and is downstream of the Geismar industrial complex. The Venice/Buras area represents the river downstream of all major discharges. Recreational and commercial fishermen frequent all stations.

Methods

Analytical Methods – Methods used for analysis of the subject samples included EPA Method 1613 for dioxin and furan congeners and EPA Method 1668 for PCB homologues.

Drinking Water Sampling Methods – one-liter amber glass containers with Teflon-lined lids were obtained from the analytical laboratory. The containers came with a preservative (sodium thiosulfate) to fix free chlorine anticipated to be in treated water samples. The containers were filled from a tap representing drinking water after treatment and prior to distribution. The taps were allowed to flow for at least 3 minutes prior to sampling. Containers were filled directly from the tap with no supplemental equipment used. Two containers were filled per sample and duplicates were obtained from East Jefferson Water Works #1 and Peoples Water Works in Donaldsonville. Samples were stored at or below 4°C prior to and during shipping to the laboratory for analysis.

Ambient River Water Sampling Methods – a Kemmerer bottle constructed of Teflon was used to collect ambient river water at the above-described locations. A stainless steel bucket was used to hold grabs for compositing. Both pieces of equipment were cleaned by first scrubbing thoroughly with Alconox detergent and tap water, then rinsing thoroughly with tap water for five minutes. The equipment was then rinsed with HPLC-grade water and allowed to air dry. Lastly, the equipment was rinsed with HPLC-grade hexane and wrapped in similarly cleaned aluminum foil and plastic wrap for transport to the field. Prior to use, the equipment was rinsed with ambient river water. Between stations, the equipment was rinsed with HPLC-grade water and then with station-specific ambient water only. Also prior to use, an equipment blank was prepared in the field for analysis. Samples were stored at or below 4°C prior to and during shipping to the laboratory for analysis.

A Hydrolab-brand H2O *in-situ* water quality meter was used to detect stratification in the Mississippi River at each station. The results of that effort are listed in **Table 1**. The data from the *in-situ* readings indicated significant homogeneity of the waters within the river, justifying using three aliquots (from the east bank side of the river, midstream and west bank) to make up the single composite submitted per station. A duplicate composite sample of the Buras station was also submitted for a total of four (4) river water samples submitted for analysis.

Table 1

Results of in-situ water quality readings for water samples submitted to the laboratory for analysis.

<u>Sample ID/Date</u>	<u>Location</u>	<u>Depth</u>	<u>pH</u>	<u>Conductivity</u>	<u>Dissolved Oxygen</u>	<u>Temperature</u>
040-010516-02/ May 16, 2001	Mississippi River @ Lake Providence (West Bank)	1 meter	7.22	416	7.28	22.19
		7 meters	7.29	416	7.17	22.18
		14 meters	7.35	416	7.1	22.18
	Mississippi River @ Lake Providence (Mid Stream)	1 meter	7.49	416	7.25	22.19
		7 meters	7.52	416	7.13	22.19
		14 meters	7.53	416	7.1	22.19
	Miss River @ Lake Providence (East Bank)	1 meter	7.57	417	7.27	22.3
040-010516-03/ May 16, 2001	Mississippi River @ Baton Rouge (West Bank)	1 meter	7.47	400	7.11	22.96
		7 meters	7.48	401	7.21	22.97
		14 meters	7.5	401	7.12	22.96
	Mississippi River @ Baton Rouge (Mid Stream)	1 meter	7.56	401	7.24	22.92
		7 meters	7.55	401	7.2	22.9
		14 meters	7.55	401	7.16	22.89
	Mississippi River @ Baton Rouge (East Bank)	1 meter	7.6	406	7.14	22.94
		7 meters	7.59	406	7.13	22.94
		14 meters	7.58	406	7.11	22.93
040-010517-01/ May 17, 2001	Mississippi River @ Donaldsonville (West Bank)	1 meter	7.5	414	7.18	22.91
		7 meters	7.5	414	7.12	22.9
		14 meters	7.51	414	7.09	22.9

Table 1 (con't)

Results of in-situ water quality readings for water samples submitted to the laboratory for analysis.

<u>Sample ID/Date</u>	<u>Location</u>	<u>Depth</u>	<u>pH</u>	<u>Conductivity</u>	<u>Dissolved Oxygen</u>	<u>Temperature</u>
040-010517-01/ May 17, 2001	Mississippi River @ Donaldsonville (Mid Stream)	1 meter 7 meters 14 meters	7.57 7.57 7.56	414 415 415	7.1 7.09 7.07	22.92 22.9 22.9
	Mississippi River @ Donaldsonville (East Bank)	1 meter 7 meters 14 meters	7.6 7.6 7.59	414 415 415	7.11 7.06 7.02	22.92 22.91 22.91
040-010517-02/ May 17, 2001	Mississippi River @ Buras (West Bank)	1 meter 7 meters 14 meters	7.65 7.63 7.61	405 406 406	6.98 6.93 6.9	22.49 22.45 22.45
	Mississippi River @ Buras (Mid Stream)	1 meter 7 meters 14 meters	7.69 7.66 7.65	405 406 406	7.03 6.97 6.93	22.66 22.42 22.39
	Mississippi River @ Buras (East Bank)	1 meter 7 meters 14 meters	7.83 7.8 7.73	403 405 405	7.19 7.11 6.98	22.73 22.64 22.42

Sediment Sampling Methods – river bottom sediment from the Mississippi River was collected using a pipe dredge. The pipe dredge is constructed of six-inch diameter cast iron bell housing that reduces to a four-inch diameter cast iron pipe (sealed on the distal end). A handle is welded onto the proximal end of the bell housing. A ten-foot length of 3/16-inch chain was attached to the dredge handle to assist in dredge effectiveness. The interior of the dredge was lined with a Halar Teflon coating. The dredge was cleaned after the same manner as described for the ambient water sampling equipment.

Operation of the dredge consisted of lowering the device from a boat with 3/8 -inch nylon rope to the river bottom and increasing rope length from dredge to boat to ensure that the dredge is dragged horizontally downstream with the boat. The dredge is retrieved and any sediment removed with a stainless steel spoon and placed into a stainless steel bucket (both spoon and bucket were cleaned according to the procedure for the dredge and ambient water sampling equipment). One to three drags of the dredge were required each near the east bank of the river, at mid-stream and near the west bank to gain sufficient sediment sample volume for the station composite. The sediment was homogenized thoroughly in the bucket with the spoon by stirring. The sediment composite was then spooned into 500 ml amber glass containers with Teflon lined lids. Two containers were submitted per station and a duplicate of the St. Francisville sediment sample was also submitted. Samples were stored at or below 4°C prior to and during shipping to the laboratory for analysis.

Fish Tissue Sampling Methods – fish were collected from the Mississippi River at the three station locations described in “Station Selection” (above). Methods used to collect fish included the use of hoop nets and by electro-fishing. Initially targeted species were from three general categories: catfish (channel catfish – *Ictalurus punctatus*), rough fish (small mouth buffalo – *Ictiobus bubalus*) and game fish (white bass – *Morone chrysops*). However, due to high water conditions and resource limitations, some substitute target species were collected and submitted for analysis. Substitute catfish species submitted included blue catfish (*Ictalurus furcatus*) and flathead catfish (*Pylodictis olivaris*). Substitute rough fish species included big mouth buffalo (*Ictiobus cyprinellus*) and freshwater drum (*Aplodinotus grunniens*). Substitute game fish species included striped bass (*Morone saxatalis*), largemouth bass (*Micropterus salmoides*), and white crappie (*Pomoxis annularis*). The sample number, species, length, weight, number of individuals and percent length variability per composite sample submitted are indicated in **Table 2**.

Table 2

Sample number, species, length, weight, number of individuals and percent length variability per composite sample.

<u>Sample No./Date</u>	<u>Location</u>	<u>Species</u>	<u>Length</u>	<u>Weight</u>	<u>Percent Length Variability</u>
040-010531-01/ May 31, 2001	St. Francisville	Flathead Catfish	30.5cm/12 inches	n/a	20%
	St. Francisville	Flathead Catfish	29cm/11.5 inches	n/a	
	St. Francisville	Flathead Catfish	38cm/15 inches	n/a	
040-010531-02/ May 31, 2001	St. Francisville	Flathead Catfish	41.5cm/16.3 inches	n/a	14%
	St. Francisville	Flathead Catfish	42.5cm/16.7 inches	n/a	
	St. Francisville	Flathead Catfish	38cm/15 inches	n/a	
	St. Francisville	Flathead Catfish	44.5cm/17.5 inches	n/a	
040-010531-03/ May 31, 2001	St. Francisville	Flathead Catfish	46.5cm/18.3 inches	1.9 lbs	10%
	St. Francisville	Flathead Catfish	46cm/18.1 inches	1.9 lbs	
	St. Francisville	Flathead Catfish	50cm/20 inches	2.4 lbs.	
	St. Francisville	Flathead Catfish	47cm/18.5 inches	1.9 lbs	
040-010531-04/ May 31, 2001	St. Francisville	Big Mouth Buffalo	54cm/21.3 inches	5.6 lbs	13%
	St. Francisville	Big Mouth Buffalo	48cm/18.9 inches	4.8 lbs	
	St. Francisville	Big Mouth Buffalo	47cm/18.5 inches	3.4 lbs	
040-010607-01/ June 7, 2001	Donaldsonville	Flathead Catfish	55.5cm/21.8 inches	3.6 lbs	12%
	Donaldsonville	Flathead Catfish	48.5cm/19.1 inches	3.1 lbs	
	Donaldsonville	Flathead Catfish	52cm/20.5 inches	3.4 lbs	
040-010607-02/ June 7, 2001	Donaldsonville	Flathead Catfish	51cm/20.1 inches	2.6 lbs	7%
	Donaldsonville	Flathead Catfish	54.5cm/21.5 inches	3.3 lbs	
	Donaldsonville	Flathead Catfish	51.5cm/20.4 inches	3.5 lbs	

Table 2 (con't)

Sample number, species, length, weight, number of individuals and percent length variability per composite sample.

<u>Sample No.</u>	<u>Location</u>	<u>Species</u>	<u>Length</u>	<u>Weight</u>	<u>Percent Length Variability</u>
040-010607-03/	Donaldsonville	Flathead Catfish	50cm/20 inches	2.7 lbs	14%
June 7, 2001	Donaldsonville	Flathead Catfish	49.5cm/19.5 inches	2.5 lbs	
	Donaldsonville	Flathead Catfish	44cm/17.3 inches	1.6 lbs	
040-010607-04/	Donaldsonville	Freshwater Drum	41cm/16.1 inches	1.2 lbs	8%
June 7, 2001	Donaldsonville	Freshwater Drum	40cm/15.7 inches	1.9 lbs	
	Donaldsonville	Freshwater Drum	43.5cm/17.1 inches	2.8 lbs	
040-010612-01/	Donaldsonville	Big Mouth Buffalo	62cm/24.4 inches	8.5 lbs	16%
June 12, 2001	Donaldsonville	Big Mouth Buffalo	52cm/20.5 inches	5.5 lbs	
	Donaldsonville	Big Mouth Buffalo	56cm/22 inches	6.1 lbs	
040-010612-02/	Donaldsonville	Freshwater Drum	46cm/18.1 inches	3.3 lbs	14%
June 12, 2001	Donaldsonville	Freshwater Drum	42.5cm/16.7 inches	2.3 lbs	
	Donaldsonville	Freshwater Drum	42cm/16.5 inches	1.8 lbs	
	Donaldsonville	Freshwater Drum	39.5cm/15.6 inches	1.6 lbs	
040-010612-03/	Donaldsonville	Striped Bass	43.5cm/17.1 inches	2.0 lbs	17%
June 12, 2001	Donaldsonville	Striped Bass	52cm/20.5 inches	2.9 lbs	
	Donaldsonville	Striped Bass	52cm/20.5 inches	3.4 lbs	
040-010612-04/	Donaldsonville	White Crappie	34cm/13.4 inches	1.1 lbs	10%
June 12, 2001	Donaldsonville	White Crappie	30.5cm/12 inches	0.7 lbs	
040-010613-01/	Venice/Buras	Freshwater Drum	46cm/18.1 inches	3.1 lbs	12%
June 13, 2001	Venice/Buras	Freshwater Drum	52cm/20.5 inches	5.4 lbs	
	Venice/Buras	Freshwater Drum	46.5cm/18.3 inches	3.2 lbs	
040-010613-02/	Venice/Buras	Largemouth Bass	41cm/16.1 inches	2.1 lbs	7%
June 13, 2001	Venice/Buras	Largemouth Bass	39cm/15.4 inches	1.7 lbs	
	Venice/Buras	Largemouth Bass	38cm/15 inches	1.5 lbs	
	Venice/Buras	Largemouth Bass	38cm/15 inches	1.5 lbs	
040-01-0613-03/	Venice/Buras	Largemouth Bass	33cm/13 inches	1.2 lbs	13%
June 13, 2001	Venice/Buras	Largemouth Bass	35cm/13.8 inches	1.3 lbs	
	Venice/Buras	Largemouth Bass	33cm/13 inches	1.2 lbs	
	Venice/Buras	Largemouth Bass	35cm/13.8 inches	1.3 lbs	
	Venice/Buras	Largemouth Bass	32cm/12.6 inches	0.9 lbs	

Table 2 (con't)

Sample number, species, length, weight, number of individuals and percent length variability per composite sample.

<u>Sample No.</u>	<u>Location</u>	<u>Species</u>	<u>Length</u>	<u>Weight</u>	<u>Percent Length Variability</u>
040-010613-04/	Venice/Buras	Blue Catfish	45.5cm/17.9 inches	2.0 lbs	3%
June 13, 2001	Venice/Buras	Blue Catfish	46cm/18.1 inches	1.9 lbs	
	Venice/Buras	Blue Catfish	44.5cm/17.5 inches	1.7 lbs	
040-010613-05/	Venice/Buras	Blue Catfish	33.5cm/13.2 inches	0.6 lbs	12%
June 13, 2001	Venice/Buras	Blue Catfish	36cm/14.2 inches	0.8 lbs	
	Venice/Buras	Blue Catfish	38cm/15 inches	1.0 lbs	
040-010613-06/	Venice/Buras	Blue Catfish	39.5cm/15.6 inches	1.2 lbs	2%
June 13, 2001	Venice/Buras	Blue Catfish	40cm/15.7 inches	1.2 lbs	
	Venice/Buras	Blue Catfish	40.5cm/15.9 inches	1.1 lbs	
	Venice/Buras	Blue Catfish	39.5cm/15.6 inches	1.1 lbs	
	Venice/Buras	Blue Catfish	40.5cm/15.9 inches	1.7 lbs	
	Venice/Buras	Blue Catfish	40.5cm/15.9 inches	1.3 lbs	
040-010614-01/	St. Francisville	Big Mouth Buffalo	56cm/22 inches	6.1 lbs	12%
June 14, 2001	St. Francisville	Big Mouth Buffalo	49cm/19.3 inches	4.2 lbs	
	St. Francisville	Big Mouth Buffalo	50cm/20 inches	4.9 lbs	
040-010614-02/	St. Francisville	Big Mouth Buffalo	47.5cm/18.7 inches	3.9 lbs	8%
June 14, 2001	St. Francisville	Big Mouth Buffalo	48.5cm/19.1 inches	4.0 lbs	
	St. Francisville	Big Mouth Buffalo	44.5cm/17.5 inches	3.4 lbs	
040-010614-03/	St. Francisville	White Bass	37cm/14.6 inches	1.4 lbs	6%
June 14, 2001	St. Francisville	White Bass	37.5cm/14.8 inches	1.6 lbs	
	St. Francisville	White Bass	38cm/15 inches	1.6 lbs	
	St. Francisville	White Bass	37.5cm/14.8 inches	1.5 lbs	
	St. Francisville	White Bass	39.5cm/15.6 inches	1.9 lbs	
	St. Francisville	White Bass	38cm/15 inches	1.4 lbs	
	St. Francisville	White Bass	37.5cm/14.8 inches	1.3 lbs	
040-010614-04/	St. Francisville	White Bass	31cm/12.2 inches	0.9 lbs	10%
June 14, 2001	St. Francisville	White Bass	34.5cm/13.6 inches	1.1 lbs	
	St. Francisville	White Bass	32cm/12.6 inches	1.0 lbs	
	St. Francisville	White Bass	34cm/13.4 inches	1.2 lbs	
	St. Francisville	White Bass	34.5cm/13.6 inches	1.2 lbs	
040-010620-01/	St. Francisville	White Crappie	35.5cm/14.0 inches	1.0 lbs	11%
June 14, 2001					

Table 2 (con't)

Sample number, species, length, weight, number of individuals and percent length variability per composite sample.

<u>Sample No.</u>	<u>Location</u>	<u>Species</u>	<u>Length</u>	<u>Weight</u>	<u>Percent Length Variability</u>
040-010620-01/	St. Francisville	White Crappie	34cm/13.4 inches	1.0 lbs	
June 14, 2001	St. Francisville	White Crappie	31.5cm/12.4 inches	0.9 lbs	
040-010620-02/	Donaldsonville	White Bass	33.5cm/13.2 inches	0.9 lbs	8%
June 20, 2001	Donaldsonville	White Bass	31cm/12.2 inches	0.8 lbs	
	Donaldsonville	White Bass	31cm/12.2 inches	0.8 lbs	
040-010626-01/	Venice/Buras	Striped Bass	59.5cm/23.4 inches	3.8 lbs	12%
June 26, 2001	Venice/Buras	Striped Bass	55cm/21.7 inches	3.3 lbs	
	Venice/Buras	Striped Bass	52.5cm/20.7 inches	2.6 lbs	
040-010626-02/	Venice/Buras	Big Mouth Buffalo	49cm/19.3 inches	3.5 lbs	14%
June 26, 2001	Venice/Buras	Big Mouth Buffalo	47.5cm/18.7 inches	3.4 lbs	
	Venice/Buras	Big Mouth Buffalo	55cm/21.7 inches	6.0 lbs	
	Venice/Buras	Big Mouth Buffalo	54cm/21.3 inches	5.4 lbs	
040-010626-03/	Venice/Buras	Small Mouth Buffalo	41.5cm/16.3 inches	2.3 lbs	8%
June 26, 2001	Venice/Buras	Small Mouth Buffalo	45cm/17.7 inches	2.8 lbs	
	Venice/Buras	Small Mouth Buffalo	44cm/17.3 inches	2.4 lbs.	
	Venice/Buras	Small Mouth Buffalo	41.5cm/16.3 inches	2.3 lbs	

Collected fish were placed in stainless steel buckets (cleaned according to the same protocol described for sampling equipment) that were surrounded by wet ice in an ice chest. Only live fish were kept for sample. Fish were separated by species and grouped by size. Composites were intended to consist of a minimum of three individuals and a maximum of ten individuals. One sample composite consisted of two fish due to the relative ineffectiveness of the collection technique on that species. Individuals within each composite were to be grouped to within 15% by length (the smallest fish in the sample should not be less than 85% of the length of the largest fish); however, the percent length variability of some composites exceeded this value due to limitations in collection technique effectiveness.

Each individual was measured and weighed prior to rendering. Edible portions (filets) were removed using metallic knives cleaned according to the same protocol used for sampling equipment. Left-side filets were placed on one piece of hexane-rinsed aluminum foil and right side filets were placed on another. The fillets were then wrapped and placed into a zip-sealed plastic freezer bag and labeled according to protocol. The right-side fillets represented duplicates of the fish tissue composite. Three of the thirty fish tissue samples submitted were duplicates for quality control purposes. The remainders of the fish tissue duplicates were stored frozen in case

further analysis was needed. Tissue samples were stored and shipped at or below – 10°C.

A deviation from this protocol occurred when a designated tissue sample duplicate was submitted, but the original sample (left-side fillets – the sample that was duplicated) was not shipped to the laboratory in error. The laboratory was able to split the tissue volume in the duplicate to create an original sample and a duplicate from the single duplicate sample.

Toxic Equivalent (TEQ) Calculations – seventeen dioxin/furan congeners and 13 coplanar PCBs with “dioxin-like” effects have been assigned Toxic Equivalent Factors (TEFs) by the World Health Organization for the purpose of assessing health risk associated with the presence of these compounds. Those TEF values are listed in **Table 3**. The result of each analysis is multiplied by the TEF to yield the Toxic Equivalent (TEQ), which compares the risk associated with each compound to 2,3,7,8-TCDD. For the purposes of this study, each “non-detect” was given a value equal to one-half the Method Detection Limit to calculate each compound-specific TEQ.

Table 3

List of Toxic Equivalency Factors (TEFs) attributed to 17 dioxins and furans and to 14 coplanar PCBs with “dioxin-like” effects by the World Health Organization (1998).

<u>Compound</u>	<u>TEF</u>
2,3,7,8-TCDD	1
1,2,3,7,8-PeCDD	1
1,2,3,4,7,8-HxCDD	0.1
1,2,3,6,7,8-HxCDD	0.1
1,2,3,7,8,9-HxCDD	0.1
1,2,3,4,6,7,8-HpCDD	0.01
OCDD	0.0001
2,3,7,8-TCDF	0.1
1,2,3,7,8-PeCDF	0.05
2,3,4,7,8-PeCDF	0.5
1,2,3,4,7,8-HxCDF	0.1
1,2,3,6,7,8-HxCDF	0.1
2,3,4,6,7,8-HxCDF	0.1
1,2,3,7,8,9-HxCDF	0.1
1,2,3,4,6,7,8-HpCDF	0.1
1,2,3,4,7,8,9-HpCDF	0.01
OCDF	0.001
PCB-77	0.0001
PCB-81	0.0001
PCB-105	0.0005
PCB-114	0.0001
PCB-118	0.0001
PCB-123	0.0001
PCB-126	0.1
PCB-156	0.0005
PCB-157	0.0005

Table 3 (con't)

List of Toxic Equivalency Factors (TEFs) attributed to 17 dioxins and furans and to 14 coplanar PCBs with "dioxin-like" effects by the World Health Organization (1998).

<u>Compound</u>	<u>TEF</u>
PCB-167	0.00001
PCB-169	0.01
PCB-170	0.0001
PCB-180	0.00001
PCB-189	0.0001

Results

A summary of the results of the laboratory analyses is listed in **Appendix A**. Non-detects for dioxins/furans were removed from the table for ease of reference. Qualifier "A" indicates that the value reported was below the lower calibration limit of the instrument. Qualifier "B" indicates that the compounds reported were present in the laboratory method blank. Qualifier "D" indicates that the reported value is the maximum possible concentration due to possible chlorinated diphenylether interference.

Dioxins/Furans

Dioxins/Furans in Ambient Mississippi River Water – The numerical criterion for 2,3,7,8-TCDD in surface waters that is used as a drinking water supply is 0.71 pg/l. No 2,3,7,8-TCDD was found in any of the ambient water samples above the detection limit. There was no violation of ambient water quality standards observed in this study.

Dioxins/Furans in Sediment – No numerical criteria or standard for 2,3,7,8-TCDD or any other of the dioxin/furan congeners exists for sediment. The most toxic dioxin compounds 2,3,7,8-TCDD and 1,2,3,7,8-PeCDD (TEF = 1) were found only in the Buras sediment sample (0.587 ppt and 0.434 ppt, respectively).

Dioxins/Furans in Drinking Water - The Environmental Protection Agency advises that no consumption of drinking water is advised when levels of 2,3,7,8-TCDD exceed 0.01 ng/l for children and 0.04 ng/l for adults. The highest calculated toxic equivalent (TEQ) for all dioxin/furan congeners in the drinking water samples subject to this study was 0.002049825 ng/l. Of the 17 dioxin/furan congeners, only OCDD was detected in drinking water. All other components to the TEQ calculations were based on "non-detects". Thus, action levels for dioxins/furans in drinking water were not exceeded.

Dioxins/Furans in Fish Tissue – The U.S. Food and Drug Administration advises no consumption of fish or shellfish that contain concentrations of 2,3,7,8-TCDD above 50 ppt. Further, limits on fish consumption may be advised when concentrations exceed 25 ppt of 2,3,7,8-TCDD. The highest dioxin TEQ calculated from the data in this study was 2.217711 pg/g (ppt).

PCBs

PCBs in Ambient Waters – The state numerical criteria for Total PCBs in surface waters used as a drinking water supply is 0.01 ng/l (ppt). No PCB homologues were detected in any of the ambient river water samples, therefore, there is no violation of ambient water standards in the Mississippi River for PCBs using current method detection limits.

PCBs in Sediment – There are no numerical criteria for PCBs in ambient sediment. The most toxic of the PCB homologues (PCB-126) was not detected in any of the sediment samples. The number of other PCB congeners detected increased with distance downstream. Also, the concentration of each individual homologue, when detected, generally increased with downstream distance.

PCBs in Drinking Water – The EPA standard for Total PCBs in drinking water is 0.5 ppb. The highest sum of all PCB homologues detected in drinking water samples (using ½ the Method Detection Limit for non-detects) was 0.0046175 ppb. Therefore, no violation of EPA standards for PCBs in drinking water was observed in this study.

PCBs in Fish Tissue – The U.S. Food and Drug Administration requires that fish and shellfish as food contain no more than 2 ppm of PCBs. The highest value obtained from summing all PCB homologue results in a fish tissue sample in this study was 0.00002915904 ppm. None of the values obtained from the PCB analyses of fish tissue in this study exceeded FDA action levels.

Toxic Equivalents (TEQs)

The toxic equivalents for all dioxin, furan and PCB compounds were summed for the purpose of conservatively comparing the results to “action levels” associated with 2,3,7,8 TCDD. The highest TEQ calculated in this manner for drinking water was 28.691651 ppq and was calculated using non-detections as equal to one-half the Method Detection Limit. The EPA has set a limit of 0.00003 micrograms of 2,3,7,8-TCDD per liter of drinking water (0.00003 µg/L or 30 ppq). This action level was not exceeded. Non-detections and, therefore, Method Detection Limits, specifically those for PCB analyses, largely drove the calculated TEQ.

Discussion

This study has provided data on the presence of dioxins/furans and polychlorinated biphenyls in the environment associated with the lower Mississippi River in Louisiana. Comparisons of the data to existing standards, criteria and “action levels” result in no apparent need for human health advisories. The results of this study will be shared with personnel within the Louisiana Department of Health and Hospitals who have the responsibility of making health risk determinations.

Despite the substantial body of scientific work on dioxin and related compounds developed over the past five years, there may still exist key knowledge gaps that limit the practical ability to develop a quantitative risk assessment. While recognizing the importance of limiting emissions and human exposure to this class of chemicals, it is also in the best interests of the public that they are provided with information concerning risks and their minimization. As knowledge gaps are filled and technology advances, the assessment of human risk from these chemicals should be revisited in the future to ensure that the current "no advisory" status is warranted.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1998. Toxicological profile for chlorinated dibenzo-p-dioxins (CDDs). Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

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Louisiana Administrative Code 33:IX.1113(C)(6) Table 1. Numerical Criteria for Toxic Substances. 2001.

Van den Berg, M., L. Birnbaum, A.T.C. Bosveld et al. 1998. Toxic equivalency factors (TEFs) for PCBs, PCDDs, PCDFs for human and wildlife. *Environmental Health Perspective* 106(12):775-792.

Appendix A

Summary of Analyses

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010605-01	Sediment	St. Francisville	1,2,3,4,6,7,8 HpCDD	1.28	(pg/g)	A
040-010605-01(DUP)	Sediment	St. Francisville	1,2,3,4,6,7,8 HpCDD	1.25	(pg/g)	A
040-010605-02	Sediment	Donaldsonville	1,2,3,4,6,7,8 HpCDD	41.1	(pg/g)	
040-010622-01	Sediment	Buras	1,2,3,4,6,7,8 HpCDD	25.4	(pg/g)	
040-010605-02	Sediment	Donaldsonville	1,2,3,4,6,7,8 HpCDF	6.7	(pg/g)	
040-010622-01	Sediment	Buras	1,2,3,4,6,7,8 HpCDF	3.74	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,4,7,8 HxCDD	0.326	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,4,7,8 HxCDF	0.857	(pg/g)	A
040-010605-02	Sediment	Donaldsonville	1,2,3,6,7,8 HxCDD	0.963	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,6,7,8 HxCDD	1.04	(pg/g)	A
040-010605-02	Sediment	Donaldsonville	1,2,3,6,7,8 HxCDF	0.188	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,6,7,8 HxCDF	0.318	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,7,8 PeCDD	0.434	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,7,8 PeCDF	0.382	(pg/g)	A
040-010605-02	Sediment	Donaldsonville	1,2,3,7,8,9 HxCDD	0.558	(pg/g)	A
040-010622-01	Sediment	Buras	1,2,3,7,8,9 HxCDD	0.834	(pg/g)	A
040-010605-02	Sediment	Donaldsonville	2,3,4,6,7,8 HxCDF	0.237	(pg/g)	A
040-010622-01	Sediment	Buras	2,3,4,7,8 PeCDF	0.505	(pg/g)	A
040-010622-01	Sediment	Buras	2,3,7,8 TCDD	0.587	(pg/g)	A
040-010622-01	Sediment	Buras	2,3,7,8 TCDF	1.2	(pg/g)	
040-010605-01	Sediment	St. Francisville	OCDD	25.3	(pg/g)	B
040-010605-01(DUP)	Sediment	St. Francisville	OCDD	25.4	(pg/g)	B
040-010605-02	Sediment	Donaldsonville	OCDD	1120	(pg/g)	B
040-010622-01	Sediment	Buras	OCDD	1030	(pg/g)	B
040-010605-02	Sediment	Donaldsonville	OCDF	38.6	(pg/g)	
040-010622-01	Sediment	Buras	OCDF	14.9	(pg/g)	
040-010605-01	Sediment	St. Francisville	PCB-105	0.00974	(ng/g)	
040-010605-01(DUP)	Sediment	St. Francisville	PCB-105	0.00981	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-105	0.053	(ng/g)	
040-010622-01	Sediment	Buras	PCB-105	0.108	(ng/g)	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010605-01	Sediment	St. Francisville	PCB-118	0.0173	(ng/g)	
040-010605-01(DUP)	Sediment	St. Francisville	PCB-118	0.0169	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-118	0.121	(ng/g)	
040-010622-01	Sediment	Buras	PCB-118	0.217	(ng/g)	
040-010622-01	Sediment	Buras	PCB-123	0.00822	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-156	0.0155	(ng/g)	
040-010622-01	Sediment	Buras	PCB-156	0.0278	(ng/g)	
040-010622-01	Sediment	Buras	PCB-157	0.00993	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-167	0.00822	(ng/g)	
040-010622-01	Sediment	Buras	PCB-167	0.0146	(ng/g)	
040-010605-01	Sediment	St. Francisville	PCB-170	0.00558	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-170	0.0594	(ng/g)	
040-010622-01	Sediment	Buras	PCB-170	0.105	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-180	0.14	(ng/g)	
040-010622-01	Sediment	Buras	PCB-180	0.237	(ng/g)	
040-010605-01	Sediment	St. Francisville	PCB-77	0.00548	(ng/g)	
040-010605-01(DUP)	Sediment	St. Francisville	PCB-77	0.00533	(ng/g)	
040-010605-02	Sediment	Donaldsonville	PCB-77	0.0176	(ng/g)	
040-010622-01	Sediment	Buras	PCB-77	0.0379	(ng/g)	
040-010605-01	Sediment	St. Francisville	Total HpCDD	3.06	(pg/g)	
040-010605-01(DUP)	Sediment	St. Francisville	Total HpCDD	3.12	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total HpCDD	112	(pg/g)	
040-010622-01	Sediment	Buras	Total HpCDD	66.8	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total HpCDF	26	(pg/g)	
040-010622-01	Sediment	Buras	Total HpCDF	9.41	(pg/g)	
040-010605-01	Sediment	St. Francisville	Total HxCDD	0.784	(pg/g)	
040-010605-01(DUP)	Sediment	St. Francisville	Total HxCDD	0.807	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total HxCDD	12.4	(pg/g)	
040-010622-01	Sediment	Buras	Total HxCDD	19.7	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total HxCDF	4.7	(pg/g)	
040-010622-01	Sediment	Buras	Total HxCDF	3.96	(pg/g)	
040-010605-01	Sediment	St. Francisville	Total PeCDD	0.661	(pg/g)	
040-010605-01(DUP)	Sediment	St. Francisville	Total PeCDD	0.744	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total PeCDD	4.49	(pg/g)	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010622-01	Sediment	Buras	Total PeCDD	9.52	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total PeCDF	1.3	(pg/g)	
040-010622-01	Sediment	Buras	Total PeCDF	4.03	(pg/g)	
040-010605-01	Sediment	St. Francisville	Total TCDD	0.939	(pg/g)	
040-010605-01(DUP)	Sediment	St. Francisville	Total TCDD	1.03	(pg/g)	
040-010605-02	Sediment	Donaldsonville	Total TCDD	5.4	(pg/g)	
040-010622-01	Sediment	Buras	Total TCDD	13.3	(pg/g)	
040-010622-01	Sediment	Buras	Total TCDF	7.79	(pg/g)	
040-010515-01	Treated Drinking Water	E. Jefferson WW #1	OCDD	3.54	pg/L	A,B
040-010515-01	Treated Drinking Water	E. Jefferson WW #1	OCDF	2.02	pg/L	A,B
040-010515-01	Treated Drinking Water	E. Jefferson WW #1	All PCB's	0	ng/L	
040-010515-01 (DUP)	Treated Drinking Water	E. Jefferson WW #1	All PCB's	0	ng/L	
040-010515-01 (DUP)	Treated Drinking Water	E. Jefferson WW #1	OCDD	4.61	pg/L	A,B
040-010515-01 (DUP)	Treated Drinking Water	E. Jefferson WW #1	OCDF	2.08	pg/L	A,B
040-010515-02	Treated Drinking Water	Orleans WW - Carrollton	OCDD	4.98	pg/L	A,B
040-010515-02	Treated Drinking Water	Orleans WW - Carrollton	OCDF	1.9	pg/L	A,B
040-010515-02	Treated Drinking Water	Orleans WW - Carrollton	All PCB's	0	ng/L	
040-010515-03	Treated Drinking Water	Orleans WW - Algiers	All PCB's	0	ng/L	
040-010515-03	Treated Drinking Water	Orleans WW - Algiers	OCDD	4.55	pg/L	A,B
040-010515-03	Treated Drinking Water	Orleans WW - Algiers	OCDF	2.07	pg/L	A,B
040-010619-01	Treated Drinking Water	Donaldsonville (Peoples Water Works)	all dioxins/furans	ND	(pg/g)	
040-010619-01	Treated Drinking Water	Donaldsonville (Peoples Water Works)	PCB-77	0.0593	(ng/l)	
040-010619-01	Treated Drinking Water	Donaldsonville (Peoples Water Works)	PCB-105	0.0722	(ng/l)	
040-010619-01	Treated Drinking Water	Donaldsonville (Peoples Water Works)	PCB-118	0.132	(ng/l)	
040-010619-01(DUP)	Treated Drinking Water	Donaldsonville (Peoples Water Works)	all dioxins/furans	ND	(pg/g)	
040-010619-01(DUP)	Treated Drinking Water	Donaldsonville (Peoples Water Works)	PCB-118	0.0661	(ng/l)	
040-010619-02	Treated Drinking Water	Napoleanville (Assumption WW#1)	all dioxins/furans	ND	(pg/g)	
040-010619-02	Treated Drinking Water	Napoleanville (Assumption WW#1)	PCB-77	0.0805	(ng/l)	
040-010619-02	Treated Drinking Water	Napoleanville (Assumption WW#1)	PCB-105	0.167	(ng/l)	
040-010619-02	Treated Drinking Water	Napoleanville (Assumption WW#1)	PCB-118	0.394	(ng/l)	
040-010619-02	Treated Drinking Water	Napoleanville (Assumption WW#1)	PCB-169	0.0673	(ng/l)	
040-010619-03	Treated Drinking Water	Vacherie (St. James WW#2)	all dioxins/furans	ND	(pg/g)	
040-010619-03	Treated Drinking Water	Vacherie (St. James WW#2)	PCB-77	0.0562	(ng/l)	
040-010619-03	Treated Drinking Water	Vacherie (St. James WW#2)	PCB-105	0.124	(ng/l)	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010619-03	Treated Drinking Water	Vacherie (St. James WW#2)	PCB-118	0.257	(ng/l)	
040-010619-04	Treated Drinking Water	Luling (St. Charles WW#2)	all dioxins/furans	ND	(pg/g)	
040-010619-04	Treated Drinking Water	Luling (St. Charles WW#2)	PCB-118	0.0802	(ng/l)	
040-010619-05	Treated Drinking Water	Lutcher (Lutcher WW)	OCDD	18.7	(pg/g)	A
040-010516-01	Ambient River Water	Equipment Blank	All PCB's	0*	ng/L	
040-010516-01	Ambient River Water	Equipment Blank	OCDD	2.65	pg/L	A,B
040-010516-01	Ambient River Water	Equipment Blank	OCDF	1.7	pg/L	A,B
040-010516-02	Ambient River Water	Lake Providence RM 483	1,2,3,4,6,7,8-HpCDD	7.88	pg/L	A
040-010516-02	Ambient River Water	Lake Providence RM 483	OCDD	328	pg/L	B
040-010516-02	Ambient River Water	Lake Providence RM 483	OCDF	7.59	pg/L	A,B
040-010516-02	Ambient River Water	Lake Providence RM 483	Total HxCDD	2.18	pg/L	
040-010516-02	Ambient River Water	Lake Providence RM 483	All PCB's	0*	ng/L	
040-010516-03	Ambient River Water	Baton Rouge RM 225	All PCB's	0*	ng/L	
040-010516-03	Ambient River Water	Baton Rouge RM 225	1,2,3,4,6,7,8-HpCDD	9.34	pg/L	A
040-010516-03	Ambient River Water	Baton Rouge RM 225	OCDD	434	pg/L	B
040-010516-03	Ambient River Water	Baton Rouge RM 225	OCDF	6.71	pg/L	A,B
040-010516-03	Ambient River Water	Baton Rouge RM 225	Total HxCDD	2.33	pg/L	
040-010516-03	Ambient River Water	Baton Rouge RM 225	Total HpCDD	22.8	pg/L	
040-010517-01	Ambient River Water	Donaldsonville RM 177	All PCB's	0*	ng/L	
040-010517-01	Ambient River Water	Donaldsonville RM 177	1,2,3,4,6,7,8-HpCDD	7.7	pg/L	A
040-010517-01	Ambient River Water	Donaldsonville RM 177	OCDD	355	pg/L	B
040-010517-01	Ambient River Water	Donaldsonville RM 177	OCDF	6.22	pg/L	A,B
040-010517-01	Ambient River Water	Donaldsonville RM 177	Total HxCDD	1.8	pg/L	
040-010517-01	Ambient River Water	Donaldsonville RM 177	Total HpCDD	18.5	pg/L	
040-010517-02	Ambient River Water	Buras RM 26	1,2,3,4,6,7,8-HpCDD	8.3	pg/L	A
040-010517-02	Ambient River Water	Buras RM 26	OCDD	338	pg/L	B
040-010517-02	Ambient River Water	Buras RM 26	OCDF	5.56	pg/L	A,B
040-010517-02	Ambient River Water	Buras RM 26	Total HxCDD	1.99	pg/L	
040-010517-02	Ambient River Water	Buras RM 26	Total HpCDD	23.7	pg/L	
040-010517-02	Ambient River Water	Buras RM 26	All PCB's	0*	ng/L	
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	All PCB's	0*	ng/L	
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	1,2,3,4,6,7,8-HpCDD	7.92	pg/L	A
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	OCDD	386	pg/L	B
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	OCDF	5.88	pg/L	A,B

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	Total HxCDD	1.98	pg/L	
040-010517-02 (DUP)	Ambient River Water	Buras RM 26	Total HpCDD	23.4	pg/L	
040-010531-01	Flathead Catfish	St. Francisville	2,3,7,8-TCDD	0.131	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	1,2,3,7,8-PeCDD	0.0963	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.311	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	OCDD	0.811	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	2,3,4,7,8-PeCDF	0.0657	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	1,2,3,6,7,8-HxCDF	0.14	pg/g	A,D
040-010531-01	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.254	pg/g	A
040-010531-01	Flathead Catfish	St. Francisville	Total TCDD	0.131	pg/g	
040-010531-01	Flathead Catfish	St. Francisville	Total PeCDD	0.0963	pg/g	
040-010531-01	Flathead Catfish	St. Francisville	Total HpCDD	0.311	pg/g	
040-010531-01	Flathead Catfish	St. Francisville	Total TCDF	0.318	pg/g	D
040-010531-01	Flathead Catfish	St. Francisville	Total PeCDF	0.545	pg/g	D
040-010531-01	Flathead Catfish	St. Francisville	Total HxCDF	0.555	pg/g	D
040-010531-01	Flathead Catfish	St. Francisville	Total HpCDF	0.418	pg/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-77	0.0059	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-81	0.00335	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-105	0.547	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-114	0.0341	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-118	1.62	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-123	0.0311	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-126	0.00501	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-156	0.28	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-157	0.0678	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-167	0.163	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-170	1.06	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-180	3.9	ng/g	
040-010531-01	Flathead Catfish	St. Francisville	PCB-189	0.0395	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	2,3,7,8-TCDD	0.231	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,7,8-PeCDD	0.158	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HxCDD	0.0764	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,6,7,8-HpCDD	0.264	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,7,8,9-HxCDD	0.0947	pg/g	A

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.623	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	OCDD	1.6	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	2,3,4,7,8-PeCDF	0.119	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,4,7,8-HxCDF	0.061	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,6,7,8-HxCDF	0.187	pg/g	A,D
040-010531-02	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.34	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	OCDF	0.141	pg/g	A
040-010531-02	Flathead Catfish	St. Francisville	Total TCDD	0.231	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	Total PeCDD	0.158	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	Total HxCDD	0.436	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	Total HpCDD	0.814	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	Total TCDF	0.486	pg/g	D
040-010531-02	Flathead Catfish	St. Francisville	Total PeCDF	0.813	pg/g	D
040-010531-02	Flathead Catfish	St. Francisville	Total HxCDF	0.817	pg/g	D
040-010531-02	Flathead Catfish	St. Francisville	Total HpCDF	0.566	pg/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-77	0.0188	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-81	0.00999	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-105	1.49	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-114	0.0984	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-118	4.42	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-123	0.432	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-126	0.0158	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-156	0.704	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-157	0.181	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-167	0.423	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-169	0.00278	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-170	2.7	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-180	10.4	ng/g	
040-010531-02	Flathead Catfish	St. Francisville	PCB-189	0.115	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	2,3,7,8-TCDD	0.177	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,7,8-PeCDD	0.141	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,4,7,8-HxCDD	0.0578	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,6,7,8-HxCDD	0.268	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,7,8,9-HxCDD	0.0903	pg/g	A

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.543	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	OCDD	1.45	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	2,3,4,7,8-PeCDF	0.0978	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,6,7,8-HxCDF	0.168	pg/g	A,D
040-010531-03	Flathead Catfish	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.187	pg/g	A
040-010531-03	Flathead Catfish	St. Francisville	Total TCDD	0.177	pg/g	
040-010531-03	Flathead Catfish	St. Francisville	Total PeCDD	0.141	pg/g	
040-010531-03	Flathead Catfish	St. Francisville	Total HxCDD	0.416	pg/g	
040-010531-03	Flathead Catfish	St. Francisville	Total HpCDD	0.543	pg/g	
040-010531-03	Flathead Catfish	St. Francisville	Total TCDF	0.331	pg/g	D
040-010531-03	Flathead Catfish	St. Francisville	Total PeCDF	0.544	pg/g	D
040-010531-03	Flathead Catfish	St. Francisville	Total HxCDF	0.558	pg/g	D
040-010531-03	Flathead Catfish	St. Francisville	Total HpCDF	0.399	pg/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-77	0.142	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-81	0.00838	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-105	1.55	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-114	0.0897	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-118	4.34	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-123	0.0761	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-126	0.0155	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-156	0.7	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-157	0.178	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-167	0.406	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-170	2.58	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-180	9.04	ng/g	
040-010531-03	Flathead Catfish	St. Francisville	PCB-189	0.1	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.28	pg/g	A
040-010531-04	Big Mouth Buffalo	St. Francisville	OCDD	1.49	pg/g	A
040-010531-04	Big Mouth Buffalo	St. Francisville	2,3,7,8-TCDF	0.223	pg/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	1,2,3,6,7,8-HxCDF	0.0591	pg/g	A
040-010531-04	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.1	pg/g	A
040-010531-04	Big Mouth Buffalo	St. Francisville	Total TCDD	0.209	pg/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	Total HpCDD	0.28	pg/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	Total TCDF	0.403	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010531-04	Big Mouth Buffalo	St. Francisville	Total PeCDF	0.159	pg/g	D
040-010531-04	Big Mouth Buffalo	St. Francisville	Total HxCDF	0.217	pg/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	Total HpCDF	0.204	pg/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-77	0.0458	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-81	0.00601	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-105	0.419	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-114	0.0287	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-118	1.15	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-123	0.0297	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-126	0.0061	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-156	0.152	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-157	0.0376	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-167	0.0945	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-169	0.000764	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-170	0.571	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-180	1.99	ng/g	
040-010531-04	Big Mouth Buffalo	St. Francisville	PCB-189	0.0225	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	2,3,7,8-TCDD	0.492	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDD	0.329	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDD	0.153	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDD	0.543	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,7,8,9-HxCDD	0.19	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDD	1.3	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	OCDD	4.18	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	2,3,7,8-TCDF	0.186	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDF	0.139	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	2,3,4,7,8-PeCDF	0.33	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDF	0.137	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDF	0.576	pg/g	A,D
040-010607-01	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.598	pg/g	A
040-010607-01	Flathead Catfish	Donaldsonville	Total TCDD	0.55	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	Total PeCDD	0.329	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	Total HxCDD	0.886	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	Total HpCDD	1.51	pg/g	

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040-010607-01	Flathead Catfish	Donaldsonville	Total TCDF	1.63	pg/g	D
040-010607-01	Flathead Catfish	Donaldsonville	Total PeCDF	2.31	pg/g	D
040-010607-01	Flathead Catfish	Donaldsonville	Total HxCDF	1.92	pg/g	D
040-010607-01	Flathead Catfish	Donaldsonville	Total HpCDF	1.23	pg/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-77	0.0721	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-81	0.0248	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-105	2.56	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-114	0.161	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-118	7.34	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-123	0.148	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-126	0.0279	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-156	0.94	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-157	0.247	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-167	0.621	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-169	0.0038	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-170	2.99	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-180	11.4	ng/g	
040-010607-01	Flathead Catfish	Donaldsonville	PCB-189	0.128	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	2,3,7,8-TCDD	0.429	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDD	0.275	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDD	0.112	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDD	0.435	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,7,8,9-HxCDD	0.16	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDD	1.07	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	OCDD	3.9	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	2,3,7,8-TCDF	0.231	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDF	0.119	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	2,3,4,7,8-PeCDF	0.264	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDF	0.125	pg/g	A
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDF	0.289	pg/g	A,D
040-010607-02	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.41	pg/g	A,D
040-010607-02	Flathead Catfish	Donaldsonville	Total TCDD	0.429	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	Total PeCDD	0.275	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	Total HxCDD	0.707	pg/g	

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040-010607-02	Flathead Catfish	Donaldsonville	Total HpCDD	1.25	pg/g	
040-010607-02	Flathead Catfish	Donaldsonville	Total TCDF	0.983	pg/g	D
040-010607-02	Flathead Catfish	Donaldsonville	Total PeCDF	1.31	pg/g	D
040-010607-02	Flathead Catfish	Donaldsonville	Total HxCDF	1.15	pg/g	D
040-010607-02	Flathead Catfish	Donaldsonville	Total HpCDF	0.739	pg/g	D
040-010607-02	Flathead Catfish	Donaldsonville	PCB-77	0.0586	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-81	0.0207	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-105	1.88	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-114	0.112	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-118	5.34	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-123	0.0959	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-126	0.0211	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-156	0.68	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-157	0.184	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-167	0.43	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-169	0.00275	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-170	2.06	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-180	7.72	ng/g	
040-010607-02	Flathead Catfish	Donaldsonville	PCB-189	0.0882	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	2,3,7,8-TCDD	0.22	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDD	0.12	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.466	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	OCDD	1.74	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	2,3,7,8-TCDF	0.438	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDF	0.0751	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	2,3,4,7,8-PeCDF	0.122	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDF	0.0657	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDF	0.167	pg/g	A,D
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.332	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	OCDF	0.227	pg/g	A
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total TCDD	0.22	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total PeCDF	0.12	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total HpCDD	0.746	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total TCDF	0.876	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total PeCDF	0.781	pg/g	D
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total HxCDF	0.769	pg/g	D
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	Total HpCDF	0.511	pg/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-77	0.141	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-81	0.0169	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-105	1.58	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-114	0.102	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-118	4.27	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-123	0.0957	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-126	0.0215	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-156	0.661	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-157	0.175	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-167	0.391	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-169	0.00261	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-170	2.38	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-180	8.39	ng/g	
040-010607-02(DUP)	Flathead Catfish	Donaldsonville	PCB-189	0.101	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	2,3,7,8-TCDD	0.328	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,7,8-PeCDD	0.189	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDD	0.308	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.594	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	OCDD	1.42	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	2,3,7,8-TCDF	0.0689	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	2,3,4,7,8-PeCDF	0.2	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,4,7,8-HxCDF	0.0716	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,6,7,8-HxCDF	0.231	pg/g	A,D
040-010607-03	Flathead Catfish	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.257	pg/g	A
040-010607-03	Flathead Catfish	Donaldsonville	Total TCDD	0.328	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	Total PeCDD	0.189	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	Total HxCDD	0.308	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	Total HpCDD	0.594	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	Total TCDF	0.847	pg/g	D
040-010607-03	Flathead Catfish	Donaldsonville	Total PeCDF	1.1	pg/g	D
040-010607-03	Flathead Catfish	Donaldsonville	Total HxCDF	0.982	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010607-03	Flathead Catfish	Donaldsonville	Total HpCDF	0.514	pg/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-77	0.0317	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-81	0.016	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-105	1.54	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-114	0.0937	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-118	4.51	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-123	0.094	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-126	0.0162	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-156	0.61	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-157	0.161	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-167	0.456	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-169	0.00234	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-170	1.89	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-180	7.36	ng/g	
040-010607-03	Flathead Catfish	Donaldsonville	PCB-189	0.0776	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	2,3,7,8-TCDD	0.0676	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,6,7,8-HxCDD	0.384	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,7,8,9-HxCDD	0.155	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.522	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	OCDD	1.99	pg/g	
040-010607-04	Freshwater Drum	Donaldsonville	2,3,7,8-TCDF	0.266	pg/g	
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,7,8-PeCDF	0.138	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	2,3,4,7,8-PeCDF	0.0516	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,4,7,8-HxCDF	0.181	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,6,7,8-HxCDF	0.476	pg/g	A,D
040-010607-04	Freshwater Drum	Donaldsonville	2,3,4,6,7,8-HxCDF	0.0819	pg/g	A
040-010607-04	Freshwater Drum	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.642	pg/g	A,D
040-010607-04	Freshwater Drum	Donaldsonville	Total TCDD	0.205	pg/g	
040-010607-04	Freshwater Drum	Donaldsonville	Total HxCDD	0.539	pg/g	
040-010607-04	Freshwater Drum	Donaldsonville	Total HpCDD	0.741	pg/g	
040-010607-04	Freshwater Drum	Donaldsonville	Total TCDF	1.73	pg/g	D
040-010607-04	Freshwater Drum	Donaldsonville	Total PeCDF	1.86	pg/g	D
040-010607-04	Freshwater Drum	Donaldsonville	Total HxCDF	3.08	pg/g	D
040-010607-04	Freshwater Drum	Donaldsonville	Total HpCDF	1.03	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010607-04	Freshwater Drum	Donaldsonville	PCB-77	0.114	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-81	0.0169	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-105	2.23	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-114	0.133	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-118	6.81	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-123	0.148	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-126	0.0208	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-156	0.726	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-157	0.198	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-167	0.514	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-169	0.00295	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-170	1.85	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-180	6.91	ng/g	
040-010607-04	Freshwater Drum	Donaldsonville	PCB-189	0.0832	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	2,3,7,8-TCDD	0.381	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,7,8-PeCDD	0.241	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,6,7,8-HxCDD	0.355	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.649	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	OCDD	2.39	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	2,3,7,8-TCDF	1.03	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,7,8-PeCDF	0.146	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	2,3,4,7,8-PeCDF	0.267	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,4,7,8-HxCDF	0.157	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,6,7,8-HxCDF	0.184	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.272	pg/g	A
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total TCDD	0.76	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total PeCDD	0.241	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total HxCDD	0.355	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total HpCDD	0.649	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total TCDF	1.93	pg/g	D
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total PeCDF	1.33	pg/g	D
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total HxCDF	0.998	pg/g	D
040-010612-01	Big Mouth Buffalo	Donaldsonville	Total HpCDF	0.501	pg/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-77	0.165	ng/g	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-81	0.0175	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-105	1.26	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-114	0.0985	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-118	3.43	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-123	0.0905	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-126	0.0161	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-156	0.417	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-157	0.101	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-167	0.232	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-169	0.0025	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-170	1.36	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-180	4.56	ng/g	
040-010612-01	Big Mouth Buffalo	Donaldsonville	PCB-189	0.0554	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.202	pg/g	A
040-010612-02	Freshwater Drum	Donaldsonville	OCDD	1.23	pg/g	A
040-010612-02	Freshwater Drum	Donaldsonville	2,3,7,8-TCDF	0.107	pg/g	A
040-010612-02	Freshwater Drum	Donaldsonville	1,2,3,6,7,8-HxCDF	0.125	pg/g	A
040-010612-02	Freshwater Drum	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.162	pg/g	A
040-010612-02	Freshwater Drum	Donaldsonville	Total HpCDD	0.425	pg/g	
040-010612-02	Freshwater Drum	Donaldsonville	Total TCDF	0.485	pg/g	D
040-010612-02	Freshwater Drum	Donaldsonville	Total PeCDF	0.529	pg/g	D
040-010612-02	Freshwater Drum	Donaldsonville	Total HxCDF	0.565	pg/g	D
040-010612-02	Freshwater Drum	Donaldsonville	Total HpCDF	0.311	pg/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-77	0.116	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-81	0.0233	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-105	1.97	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-114	0.108	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-118	6.36	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-123	0.154	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-126	0.0163	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-156	0.701	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-157	0.186	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-167	0.612	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-169	0.00271	ng/g	

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040-010612-02	Freshwater Drum	Donaldsonville	PCB-170	1.65	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-180	6.66	ng/g	
040-010612-02	Freshwater Drum	Donaldsonville	PCB-189	0.0685	ng/g	
040-010612-03	Striped Bass	Donaldsonville	2,3,7,8-TCDD	0.53	pg/g	
040-010612-03	Striped Bass	Donaldsonville	1,2,3,7,8-PeCDD	0.292	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	1,2,3,6,7,8-HxCDD	0.191	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.22	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	OCDD	0.805	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	2,3,7,8-TCDF	2.17	pg/g	
040-010612-03	Striped Bass	Donaldsonville	1,2,3,7,8-PeCDF	0.179	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	2,3,4,7,8-PeCDF	0.31	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	1,2,3,4,7,8-HxCDF	0.0773	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	1,2,3,6,7,8-HxCDF	0.284	pg/g	A,D
040-010612-03	Striped Bass	Donaldsonville	1,2,3,4,6,7,8-HpCDF	0.419	pg/g	A
040-010612-03	Striped Bass	Donaldsonville	Total TCDD	0.59	pg/g	
040-010612-03	Striped Bass	Donaldsonville	Total PeCDD	0.292	pg/g	
040-010612-03	Striped Bass	Donaldsonville	Total HxCDD	0.191	pg/g	
040-010612-03	Striped Bass	Donaldsonville	Total HpCDD	0.22	pg/g	
040-010612-03	Striped Bass	Donaldsonville	Total TCDF	3.31	pg/g	D
040-010612-03	Striped Bass	Donaldsonville	Total PeCDF	1.81	pg/g	D
040-010612-03	Striped Bass	Donaldsonville	Total HxCDF	1.27	pg/g	D
040-010612-03	Striped Bass	Donaldsonville	Total HpCDF	0.689	pg/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-77	0.278	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-81	0.0387	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-105	0.74	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-114	0.187	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-118	7.43	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-123	0.186	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-126	0.0385	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-156	1.06	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-157	0.271	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-167	0.589	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-169	0.00354	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-170	3.46	ng/g	

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040-010612-03	Striped Bass	Donaldsonville	PCB-180	12.3	ng/g	
040-010612-03	Striped Bass	Donaldsonville	PCB-189	0.146	ng/g	
040-010612-04	White Crappie	Donaldsonville	2,3,7,8-TCDD	0.199	pg/g	A
040-010612-04	White Crappie	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.282	pg/g	A,B
040-010612-04	White Crappie	Donaldsonville	OCDD	0.835	pg/g	A,B
040-010612-04	White Crappie	Donaldsonville	2,3,7,8-TCDF	0.412	pg/g	
040-010612-04	White Crappie	Donaldsonville	OCDF	0.445	pg/g	A,B
040-010612-04	White Crappie	Donaldsonville	Total TCDD	0.199	pg/g	
040-010612-04	White Crappie	Donaldsonville	Total HpCDD	0.282	pg/g	
040-010612-04	White Crappie	Donaldsonville	Total TCDF	0.412	pg/g	
040-010612-04	White Crappie	Donaldsonville	PCB-77	0.0395	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-81	0.0114	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-105	0.661	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-114	0.0409	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-118	2.99	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-123	0.05	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-126	0.00845	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-156	0.307	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-157	0.0732	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-167	0.142	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-170	0.486	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-180	1.4	ng/g	
040-010612-04	White Crappie	Donaldsonville	PCB-189	0.0247	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	1,2,3,4,6,7,8-HpCDD	0.178	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	OCDD	0.653	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	2,3,7,8-TCDF	0.0955	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	1,2,3,7,8-PeCDF	0.0584	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	1,2,3,4,7,8-HxCDF	0.0486	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	1,2,3,6,7,8-HxCDF	0.0802	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	1,2,3,4,6,7,8-HpCDF	0.122	pg/g	A
040-010613-01	Freshwater Drum	Venice/Buras	Total HpCDD	0.178	pg/g	
040-010613-01	Freshwater Drum	Venice/Buras	Total TCDF	0.317	pg/g	
040-010613-01	Freshwater Drum	Venice/Buras	Total PeCDF	0.239	pg/g	
040-010613-01	Freshwater Drum	Venice/Buras	Total HxCDF	0.356	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010613-01	Freshwater Drum	Venice/Buras	Total HpCDF	0.122	pg/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-77	0.0412	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-81	0.00873	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-105	0.799	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-114	0.041	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-118	2.26	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-123	0.0575	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-126	0.00991	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-156	0.29	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-157	0.0816	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-167	0.174	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-169	0.00206	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-170	0.844	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-180	3.14	ng/g	
040-010613-01	Freshwater Drum	Venice/Buras	PCB-189	0.0387	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	1,2,3,4,6,7,8-HpCDD	0.36	pg/g	A,B
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	OCDD	2.28	pg/g	A,B
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	2,3,7,8-TCDF	0.315	pg/g	A
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	2,3,4,6,7,8-HxCDF	0.338	pg/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	1,2,3,4,6,7,8-HpCDF	0.286	pg/g	A
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	OCDF	0.452	pg/g	A,B
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	Total HpCDD	0.36	pg/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	Total TCDF	1.22	pg/g	D
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	Total PeCDF	0.25	pg/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	Total HxCDF	0.985	pg/g	D
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	Total HpCDF	0.538	pg/g	D
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-77	0.0469	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-81	0.00986	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-105	0.936	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-114	0.0453	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-118	2.64	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-123	0.0697	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-126	0.0115	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-156	0.319	ng/g	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-157	0.089	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-167	0.189	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-169	0.00247	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-170	1.06	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-180	3.83	ng/g	
040-010613-01(DUP)	Freshwater Drum	Venice/Buras	PCB-189	0.0511	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	OCDD	1.08	pg/g	A,B
040-010613-02	Largemouth Bass	Venice/Buras	OCDF	0.958	pg/g	A,B
040-010613-02	Largemouth Bass	Venice/Buras	PCB-77	0.00932	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-105	0.108	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-114	0.00649	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-118	0.00718	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-123	0.337	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-156	0.0385	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-157	0.0108	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-167	0.0245	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-170	0.154	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-180	0.547	ng/g	
040-010613-02	Largemouth Bass	Venice/Buras	PCB-189	0.00575	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	OCDD	0.838	pg/g	A
040-010613-03	Largemouth Bass	Venice/Buras	OCDF	0.38	pg/g	A
040-010613-03	Largemouth Bass	Venice/Buras	PCB-77	0.0207	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-81	0.00214	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-105	0.261	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-114	0.0116	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-118	0.723	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-123	0.0178	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-126	0.00354	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-156	0.0949	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-157	0.0275	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-167	0.0643	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-170	0.374	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-180	1.26	ng/g	
040-010613-03	Largemouth Bass	Venice/Buras	PCB-189	0.0137	ng/g	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010613-04	Blue Catfish	Venice/Buras	2,3,7,8-TCDD	0.388	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	1,2,3,6,7,8-HxCDD	0.366	pg/g	A
040-010613-04	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDD	1.1	pg/g	A
040-010613-04	Blue Catfish	Venice/Buras	OCDD	3.9	pg/g	B
040-010613-04	Blue Catfish	Venice/Buras	2,3,7,8-TCDF	0.316	pg/g	A
040-010613-04	Blue Catfish	Venice/Buras	2,3,4,7,8-PeCDF	0.332	pg/g	A
040-010613-04	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDF	0.422	pg/g	A
040-010613-04	Blue Catfish	Venice/Buras	OCDF	0.375	pg/g	A,B
040-010613-04	Blue Catfish	Venice/Buras	Total TCDD	0.388	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	Total HxCDD	0.366	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	Total HpCDD	1.1	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	Total TCDF	0.959	pg/g	D
040-010613-04	Blue Catfish	Venice/Buras	Total PeCDF	0.786	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	Total HxCDF	1.21	pg/g	D
040-010613-04	Blue Catfish	Venice/Buras	Total HpCDF	0.422	pg/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-77	0.0446	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-81	0.00661	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-105	0.703	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-114	0.0377	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-118	1.9	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-123	0.0425	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-126	0.00898	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-156	0.276	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-157	0.0723	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-167	0.152	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-170	1.01	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-180	3.48	ng/g	
040-010613-04	Blue Catfish	Venice/Buras	PCB-189	0.044	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	2,3,7,8-TCDD	0.324	pg/g	A
040-010613-05	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDD	1.18	pg/g	A
040-010613-05	Blue Catfish	Venice/Buras	OCDD	4.08	pg/g	B
040-010613-05	Blue Catfish	Venice/Buras	2,3,7,8-TCDF	0.196	pg/g	A
040-010613-05	Blue Catfish	Venice/Buras	2,3,4,7,8-PeCDF	0.277	pg/g	A
040-010613-05	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDF	0.528	pg/g	A

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010613-05	Blue Catfish	Venice/Buras	OCDF	0.557	pg/g	A,B
040-010613-05	Blue Catfish	Venice/Buras	Total TCDD	0.324	pg/g	
040-010613-05	Blue Catfish	Venice/Buras	Total HpCDD	1.18	pg/g	
040-010613-05	Blue Catfish	Venice/Buras	Total TCDF	0.856	pg/g	D
040-010613-05	Blue Catfish	Venice/Buras	Total PeCDF	0.744	pg/g	D
040-010613-05	Blue Catfish	Venice/Buras	Total HxCDF	1.09	pg/g	D
040-010613-05	Blue Catfish	Venice/Buras	Total HpCDF	0.865	pg/g	D
040-010613-05	Blue Catfish	Venice/Buras	PCB-77	0.0414	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-81	0.00416	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-105	0.654	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-114	0.0339	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-118	1.82	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-123	0.0399	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-126	0.00685	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-156	0.246	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-157	0.0649	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-167	0.154	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-170	0.834	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-180	3	ng/g	
040-010613-05	Blue Catfish	Venice/Buras	PCB-189	0.032	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	2,3,7,8-TCDD	0.514	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	1,2,3,6,7,8-HxCDD	0.644	pg/g	A
040-010613-06	Blue Catfish	Venice/Buras	1,2,3,7,8,9-HxCDD	0.33	pg/g	A
040-010613-06	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDD	2.07	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	OCDD	9.4	pg/g	B
040-010613-06	Blue Catfish	Venice/Buras	2,3,7,8-TCDF	0.496	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	1,2,3,4,6,7,8-HpCDF	2.11	pg/g	D
040-010613-06	Blue Catfish	Venice/Buras	OCDF	0.705	pg/g	A,B
040-010613-06	Blue Catfish	Venice/Buras	Total TCDD	0.933	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	Total HxCDD	0.974	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	Total HpCDD	2.07	pg/g	
040-010613-06	Blue Catfish	Venice/Buras	Total TCDF	5.2	pg/g	D
040-010613-06	Blue Catfish	Venice/Buras	Total PeCDF	3.71	pg/g	D
040-010613-06	Blue Catfish	Venice/Buras	Total HxCDF	5.05	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010613-06	Blue Catfish	Venice/Buras	Total HpCDF	4.16	pg/g	D
040-010613-06	Blue Catfish	Venice/Buras	PCB-77	0.0615	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-81	0.00683	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-105	0.892	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-114	0.0444	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-118	2.49	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-123	0.0537	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-126	0.00975	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-156	0.336	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-157	0.0849	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-167	0.188	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-169	0.00176	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-170	1.31	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-180	4.68	ng/g	
040-010613-06	Blue Catfish	Venice/Buras	PCB-189	0.0541	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDD	1.42	pg/g	A
040-010614-01	Big Mouth Buffalo	St. Francisville	OCDD	12.6	pg/g	B
040-010614-01	Big Mouth Buffalo	St. Francisville	2,3,7,8-TCDF	0.788	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	1,2,3,4,7,8-HxCDF	0.236	pg/g	A
040-010614-01	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDF	1.01	pg/g	A
040-010614-01	Big Mouth Buffalo	St. Francisville	OCDF	7.77	pg/g	B
040-010614-01	Big Mouth Buffalo	St. Francisville	Total TCDD	0.212	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	Total HpCDD	2.09	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	Total TCDF	1.14	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	Total PeCDF	0.15	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	Total HxCDF	1.11	pg/g	D
040-010614-01	Big Mouth Buffalo	St. Francisville	Total HpCDF	1.14	pg/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-77	0.059	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-81	0.00498	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-105	0.5	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-114	0.0246	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-118	1.28	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-123	0.0371	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-126	0.00542	ng/g	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-156	0.154	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-157	0.0411	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-167	0.0918	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-170	0.523	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-180	1.7	ng/g	
040-010614-01	Big Mouth Buffalo	St. Francisville	PCB-189	0.018	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.339	pg/g	A
040-010614-02	Big Mouth Buffalo	St. Francisville	OCDD	1.96	pg/g	A,B
040-010614-02	Big Mouth Buffalo	St. Francisville	2,3,7,8-TCDF	0.304	pg/g	A
040-010614-02	Big Mouth Buffalo	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.179	pg/g	A
040-010614-02	Big Mouth Buffalo	St. Francisville	OCDF	0.304	pg/g	A,B
040-010614-02	Big Mouth Buffalo	St. Francisville	Total HpCDD	0.339	pg/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	Total TCDF	0.736	pg/g	D
040-010614-02	Big Mouth Buffalo	St. Francisville	Total HpCDF	0.399	pg/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-77	0.0198	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-81	0.00281	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-105	0.217	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-114	0.00985	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-118	0.569	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-123	0.0158	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-126	0.00292	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-156	0.0695	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-157	0.0187	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-167	0.0394	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-170	0.253	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-180	0.852	ng/g	
040-010614-02	Big Mouth Buffalo	St. Francisville	PCB-189	0.00961	ng/g	
040-010614-03	White Bass	St. Francisville	2,3,7,8-TCDD	0.85	pg/g	
040-010614-03	White Bass	St. Francisville	1,2,3,6,7,8-HxCDD	1.11	pg/g	A
040-010614-03	White Bass	St. Francisville	1,2,3,7,8,9-HxCDD	0.382	pg/g	A
040-010614-03	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDD	2.71	pg/g	
040-010614-03	White Bass	St. Francisville	OCDD	9.12	pg/g	B
040-010614-03	White Bass	St. Francisville	2,3,7,8-TCDF	0.664	pg/g	
040-010614-03	White Bass	St. Francisville	1,2,3,7,8-PeCDF	0.298	pg/g	A

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010614-03	White Bass	St. Francisville	2,3,4,7,8-PeCDF	0.721	pg/g	A
040-010614-03	White Bass	St. Francisville	1,2,3,4,7,8-HxCDF	0.248	pg/g	A
040-010614-03	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.66	pg/g	A
040-010614-03	White Bass	St. Francisville	Total TCDD	0.85	pg/g	
040-010614-03	White Bass	St. Francisville	Total HxCDD	1.49	pg/g	
040-010614-03	White Bass	St. Francisville	Total HpCDD	2.71	pg/g	
040-010614-03	White Bass	St. Francisville	Total TCDF	2.34	pg/g	D
040-010614-03	White Bass	St. Francisville	Total PeCDF	2.65	pg/g	D
040-010614-03	White Bass	St. Francisville	Total HxCDF	2.22	pg/g	D
040-010614-03	White Bass	St. Francisville	Total HpCDF	0.66	pg/g	D
040-010614-03	White Bass	St. Francisville	PCB-77	0.0967	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-81	0.0292	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-105	3	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-114	0.132	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-118	8.32	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-123	0.154	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-126	0.0331	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-156	1.08	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-157	0.289	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-167	0.684	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-169	0.00377	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-170	0.321	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-180	11.5	ng/g	
040-010614-03	White Bass	St. Francisville	PCB-189	0.136	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	2,3,7,8-TCDD	0.885	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,7,8-PeCDD	0.597	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,6,7,8-HxCDD	1.08	pg/g	A
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,7,8,9-HxCDD	0.433	pg/g	A
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDF	2.86	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	OCDD	9.39	pg/g	B
040-010614-03 (DUP)	White Bass	St. Francisville	2,3,7,8-TCDF	0.736	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,7,8-PeCDF	0.286	pg/g	A
040-010614-03 (DUP)	White Bass	St. Francisville	2,3,4,7,8-PeCDF	0.728	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.556	pg/g	A

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010614-03 (DUP)	White Bass	St. Francisville	OCDF	0.232	pg/g	A,B
040-010614-03 (DUP)	White Bass	St. Francisville	Total TCDD	0.885	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	Total PeCDD	0.597	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	Total HxCDD	1.51	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	Total HpCDD	2.86	pg/g	
040-010614-03 (DUP)	White Bass	St. Francisville	Total TCDF	2.88	pg/g	D
040-010614-03 (DUP)	White Bass	St. Francisville	Total PeCDF	2.64	pg/g	D
040-010614-03 (DUP)	White Bass	St. Francisville	Total HxCDF	2.1	pg/g	D
040-010614-03 (DUP)	White Bass	St. Francisville	Total HpCDF	1.11	pg/g	D
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-77	0.0737	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-81	0.0159	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-105	2.65	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-114	0.113	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-118	7.27	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-123	0.13	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-126	0.0261	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-156	0.972	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-157	0.26	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-167	0.613	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-169	0.00326	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-170	2.82	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-180	10.3	ng/g	
040-010614-03 (DUP)	White Bass	St. Francisville	PCB-189	0.125	ng/g	
040-010614-04	White Bass	St. Francisville	2,3,7,8-TCDD	0.746	pg/g	
040-010614-04	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.634	pg/g	A
040-010614-04	White Bass	St. Francisville	OCDD	3.78	pg/g	A,B
040-010614-04	White Bass	St. Francisville	2,3,7,8-TCDF	1.29	pg/g	
040-010614-04	White Bass	St. Francisville	2,3,4,7,8-PeCDF	0.479	pg/g	A
040-010614-04	White Bass	St. Francisville	1,2,3,4,6,7,8-HpCDF	0.971	pg/g	A,D
040-010614-04	White Bass	St. Francisville	Total TCDD	0.746	pg/g	
040-010614-04	White Bass	St. Francisville	Total HpCDD	0.634	pg/g	
040-010614-04	White Bass	St. Francisville	Total TCDF	4.56	pg/g	D
040-010614-04	White Bass	St. Francisville	Total PeCDF	2.76	pg/g	D
040-010614-04	White Bass	St. Francisville	Total HxCDF	3.19	pg/g	D

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010614-04	White Bass	St. Francisville	Total HpCDF	1.82	pg/g	D
040-010614-04	White Bass	St. Francisville	PCB-77	0.178	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-81	0.0225	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-105	3.4	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-114	0.169	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-118	8.39	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-123	0.18	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-126	0.0461	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-156	1.38	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-157	0.376	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-167	0.71	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-169	0.00244	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-170	3.37	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-180	10.8	ng/g	
040-010614-04	White Bass	St. Francisville	PCB-189	0.135	ng/g	
040-010620-01	White Crappie	St. Francisville	1,2,3,4,6,7,8-HpCDD	0.326	pg/g	A,B
040-010620-01	White Crappie	St. Francisville	OCDD	0.793	pg/g	A,B
040-010620-01	White Crappie	St. Francisville	2,3,7,8-TCDF	0.136	pg/g	A
040-010620-01	White Crappie	St. Francisville	OCDF	0.456	pg/g	A,B
040-010620-01	White Crappie	St. Francisville	Total HpCDD	0.326	pg/g	
040-010620-01	White Crappie	St. Francisville	Total TCDF	0.136	pg/g	
040-010620-01	White Crappie	St. Francisville	PCB-77	0.0043	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-105	0.0287	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-118	0.0726	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-123	0.00202	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-156	0.0103	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-157	0.00282	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-167	0.00628	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-170	0.0356	ng/g	
040-010620-01	White Crappie	St. Francisville	PCB-180	0.117	ng/g	
040-010620-02	White Bass	Donaldsonville	2,3,7,8-TCDD	0.414	pg/g	
040-010620-02	White Bass	Donaldsonville	1,2,3,7,8-PeCDD	0.209	pg/g	A
040-010620-02	White Bass	Donaldsonville	1,2,3,4,6,7,8-HpCDD	0.347	pg/g	A,B
040-010620-02	White Bass	Donaldsonville	OCDD	1.27	pg/g	A,B

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010620-02	White Bass	Donaldsonville	2,3,7,8-TCDF	1.01	pg/g	
040-010620-02	White Bass	Donaldsonville	1,2,3,7,8-PeCDF	0.121	pg/g	A
040-010620-02	White Bass	Donaldsonville	2,3,4,7,8-PeCDF	0.191	pg/g	A
040-010620-02	White Bass	Donaldsonville	OCDF	0.468	pg/g	A,B
040-010620-02	White Bass	Donaldsonville	Total TCDD	0.414	pg/g	
040-010620-02	White Bass	Donaldsonville	Total PeCDD	0.209	pg/g	
040-010620-02	White Bass	Donaldsonville	Total HpCDD	0.347	pg/g	
040-010620-02	White Bass	Donaldsonville	Total TCDF	1.01	pg/g	
040-010620-02	White Bass	Donaldsonville	Total PeCDF	0.312	pg/g	
040-010620-02	White Bass	Donaldsonville	PCB-77	0.0757	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-81	0.00853	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-105	0.737	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-114	0.0333	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-118	1.88	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-123	0.0329	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-126	0.00973	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-156	0.265	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-157	0.0727	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-167	0.151	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-170	0.766	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-180	2.72	ng/g	
040-010620-02	White Bass	Donaldsonville	PCB-189	0.0351	ng/g	
040-010626-01	Striped Bass	Venice/Buras	2,3,7,8-TCDD	0.982	pg/g	
040-010626-01	Striped Bass	Venice/Buras	1,2,3,7,8-PeCDD	0.486	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	1,2,3,4,7,8-HxCDD	0.124	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	1,2,3,6,7,8-HxCDD	0.391	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	1,2,3,7,8,9-HxCDD	0.122	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	1,2,3,4,6,7,8-HpCDD	0.599	pg/g	A,B
040-010626-01	Striped Bass	Venice/Buras	OCDD	2.14	pg/g	A,B
040-010626-01	Striped Bass	Venice/Buras	2,3,7,8-TCDF	3.18	pg/g	
040-010626-01	Striped Bass	Venice/Buras	1,2,3,7,8-PeCDF	0.284	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	2,3,4,7,8-PeCDF	0.639	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	1,2,3,4,7,8-HxCDF	0.138	pg/g	A
040-010626-01	Striped Bass	Venice/Buras	OCDF	0.507	pg/g	A,B

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010626-01	Striped Bass	Venice/Buras	Total TCDD	1.22	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total PeCDD	0.486	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total HxCDD	0.637	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total HpCDD	0.78	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total TCDF	3.34	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total PeCDF	1.1	pg/g	
040-010626-01	Striped Bass	Venice/Buras	Total HxCDF	0.298	pg/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-77	0.317	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-81	0.0709	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-105	3.07	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-114	0.153	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-118	7.7	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-123	0.188	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-126	0.039	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-156	0.982	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-157	0.255	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-167	0.491	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-169	0.00314	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-170	2.68	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-180	9.24	ng/g	
040-010626-01	Striped Bass	Venice/Buras	PCB-189	0.111	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	2,3,7,8-TCDD	0.186	pg/g	A
040-010626-02	Big Mouth Buffalo	Venice/Buras	1,2,3,4,6,7,8-HpCDD	0.568	pg/g	A,B
040-010626-02	Big Mouth Buffalo	Venice/Buras	OCDD	1.6	pg/g	A,B
040-010626-02	Big Mouth Buffalo	Venice/Buras	2,3,7,8-TCDF	0.477	pg/g	A
040-010626-02	Big Mouth Buffalo	Venice/Buras	OCDF	0.525	pg/g	A,B
040-010626-02	Big Mouth Buffalo	Venice/Buras	Total TCDD	0.331	pg/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	Total HpCDD	0.779	pg/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	Total TCDF	0.609	pg/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-77	0.038	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-81	0.00904	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-105	0.302	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-114	0.0137	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-118	0.79	ng/g	

<u>Sample ID</u>	<u>Matrix</u>	<u>Location</u>	<u>Analyte</u>	<u>Concentration</u>	<u>Report Units</u>	<u>Qualifiers</u>
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-123	0.0207	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-126	0.00501	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-156	0.1	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-157	0.0303	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-167	0.0636	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-170	0.314	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-180	1.12	ng/g	
040-010626-02	Big Mouth Buffalo	Venice/Buras	PCB-189	0.0135	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	2,3,7,8-TCDD	0.272	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,7,8-PeCDD	0.143	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,6,7,8-HxCDD	0.271	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,4,6,7,8-HpCDD	0.912	pg/g	A,B
040-010626-03	Small Mouth Buffalo	Venice/Buras	OCDD	2.88	pg/g	A,B
040-010626-03	Small Mouth Buffalo	Venice/Buras	2,3,7,8-TCDF	0.944	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,7,8-PeCDF	0.162	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	2,3,4,7,8-PeCDF	0.214	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,4,7,8-HxCDF	0.14	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	1,2,3,4,6,7,8-HpCDF	0.116	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	OCDF	0.641	pg/g	A,B
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total TCDD	0.818	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total PeCDD	0.143	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total HxCDD	0.271	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total HpCDD	1.16	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total TCDF	1.23	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total PeCDF	0.687	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total HxCDF	0.314	pg/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	Total HpCDF	0.219	pg/g	A
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-77	0.106	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-81	0.0225	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-105	0.885	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-114	0.0388	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-118	2.42	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-123	0.0593	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-126	0.0137	ng/g	

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040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-156	0.32	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-157	0.0927	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-167	0.181	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-170	1.03	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-180	3.15	ng/g	
040-010626-03	Small Mouth Buffalo	Venice/Buras	PCB-189	0.0459	ng/g	